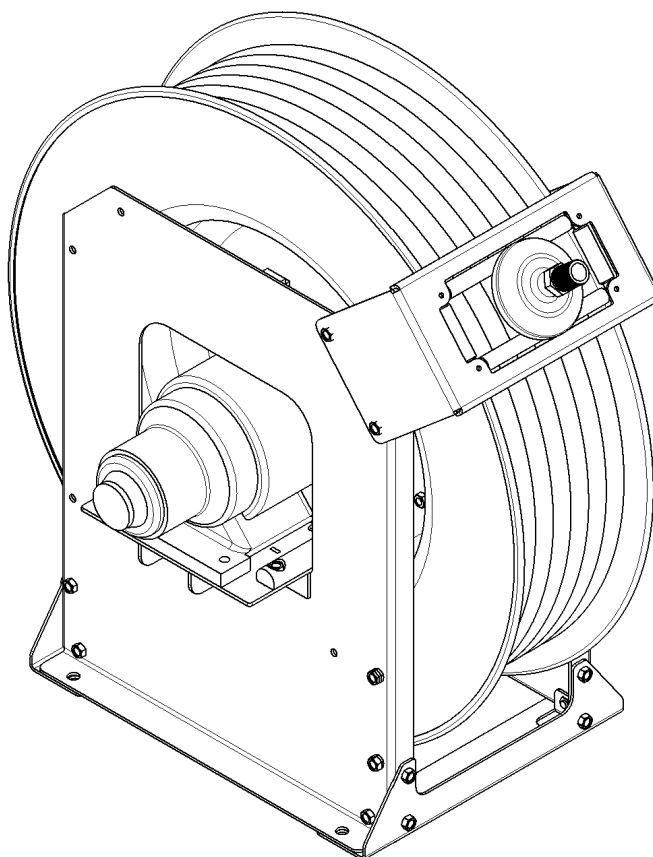


## Instructions – Parts List – Service Manual

# **DB Series Hose Reel**

- September 2010 Rev 3



Suitable for dispensing, transfer and evacuation of lubricants, fuels, air & other automotive & industrial products. To be used in general industry mining & heavy earth moving applications.

Special Features include:

- Long hose length capacity
- High strength / ridged frame and drum
- Compact width & height
- Capable of handling high pressure

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# List of DB Models

Model	Typical Application	Working Pressure Bare Hose Reel	Hose Length & Diameter
DB700-AWL-30/16-0B	General Industry Mining & Heavy Construction Truck & Bus Servicing Marine Service Applications	220 Bar Max For Lube oils	1" x 30m R1
DB700-AWL-40/12-0B	General Industry Mining & Heavy Construction Truck & Bus Servicing Marine Service Applications	220 Bar Max For Lube oils	3/4" x 40m R1

- Note:
1. All hose reel lengths stated include "hose hang down".
  2. All hose reel capabilities are based on using the hose specified.
  3. In some applications the retract ability will be effected when exceeding certain pressures or when different fluids are being transferred.



## Warning

- This equipment uses an air/hydraulic motor to retract hose on drum with supply lines which may contain “Stored Energy”. Stored energy can cause injury & death if not handled in the correct and safe manner & with care. Ensure that air or hydraulic supply is isolated when doing maintenance work.
- Read all instructions before operating equipment
- Use equipment within specified working range – pressure & hose lengths
- Use only with products compatible with flow path components
- If hose is fitted to equipment follow the instructions as detailed in this document
- Ensure all pressure is released from the hose reel before working on the reel or hose.
- Check that hose reel is suitably mounted before commencing with hose payout
- Only qualified personnel to handle this equipment

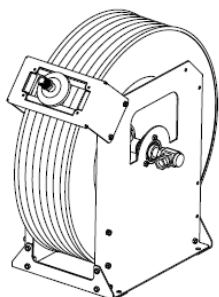


## Warning

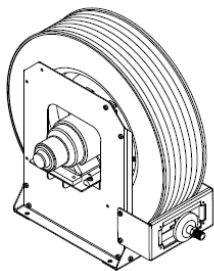
Never allow the hose reel drum to spin freely. Tension should be applied on the brake through rotation of the Wing nut on the brake assembly.

### Hose Guide Positioning:

The DB Series of hose reels referred to in this document are able to be mounted in various positions to suit working applications. The hose guides need to be repositioned to suit the different mounting – see illustrations below.



Position A: Floor / Upright Mounting



Position B: Rear Payout / Mid Level Mounting

### Instructions to fit or reposition hose guide:-

- Ensure that the hose reel is always mounted securely before working with it.
- If the hose reel is not fitted with hose ensure the hose reel drum is not under tension from the air/hydraulic motor.
- If the hose reel is fitted with hose use the tension on the brake to keep drum from freely rotating and set up brake by rotation of wing nut if required. Remove the hose stop from the hose. Carefully hold the hose on the drum.
- Remove the hose guide from the hose reel by loosening the four hex securing bolts.
- Attach the hose guide to the hose reel in the required position (see illustration) using the allocated holes.
- Reroute the hose through the hose guide as shown in the illustration.
- Replace the hose stop.



## Warning

To avoid injury ensure that you always wear non slip heavy duty gloves when installing hose on a hose reel.

### Hose and swivel installation:

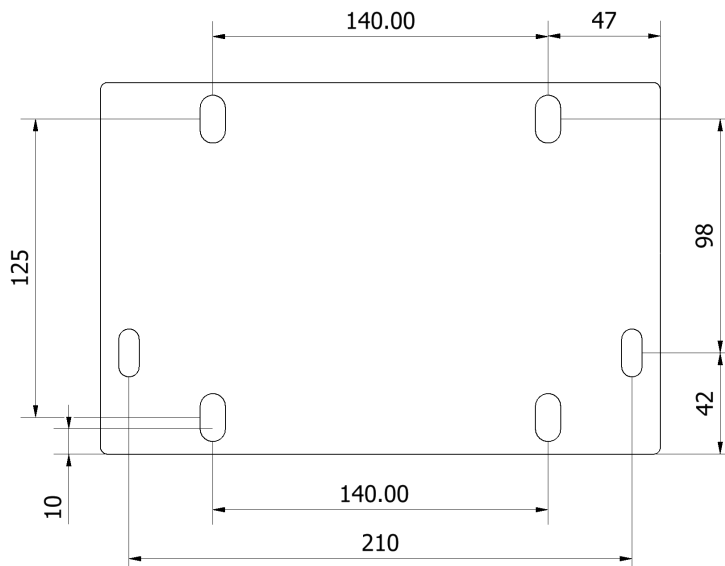
Note: Ensure that the correct length and type of hose is to be installed to avoid over winding, hose skipping the drum or rubbing on the roller brackets:-

- Ensure the hose reel is secured to a firm level surface
- Fit swivel ensuring dowty washer is in place and liquid thread sealant is used.
- Place the hose to be fitted in a straight line in front of the hose reel.
- Attach the hose to the fitting in the centre of the hose reel drum.
- After the hose has been coiled on the drum the hose stop should be fitted in the appropriate place on the hose. The length of hose left outside of the hose reel should be suitable for the mounting application and the operator should be able to reach the dispensing valve with ease & safety.

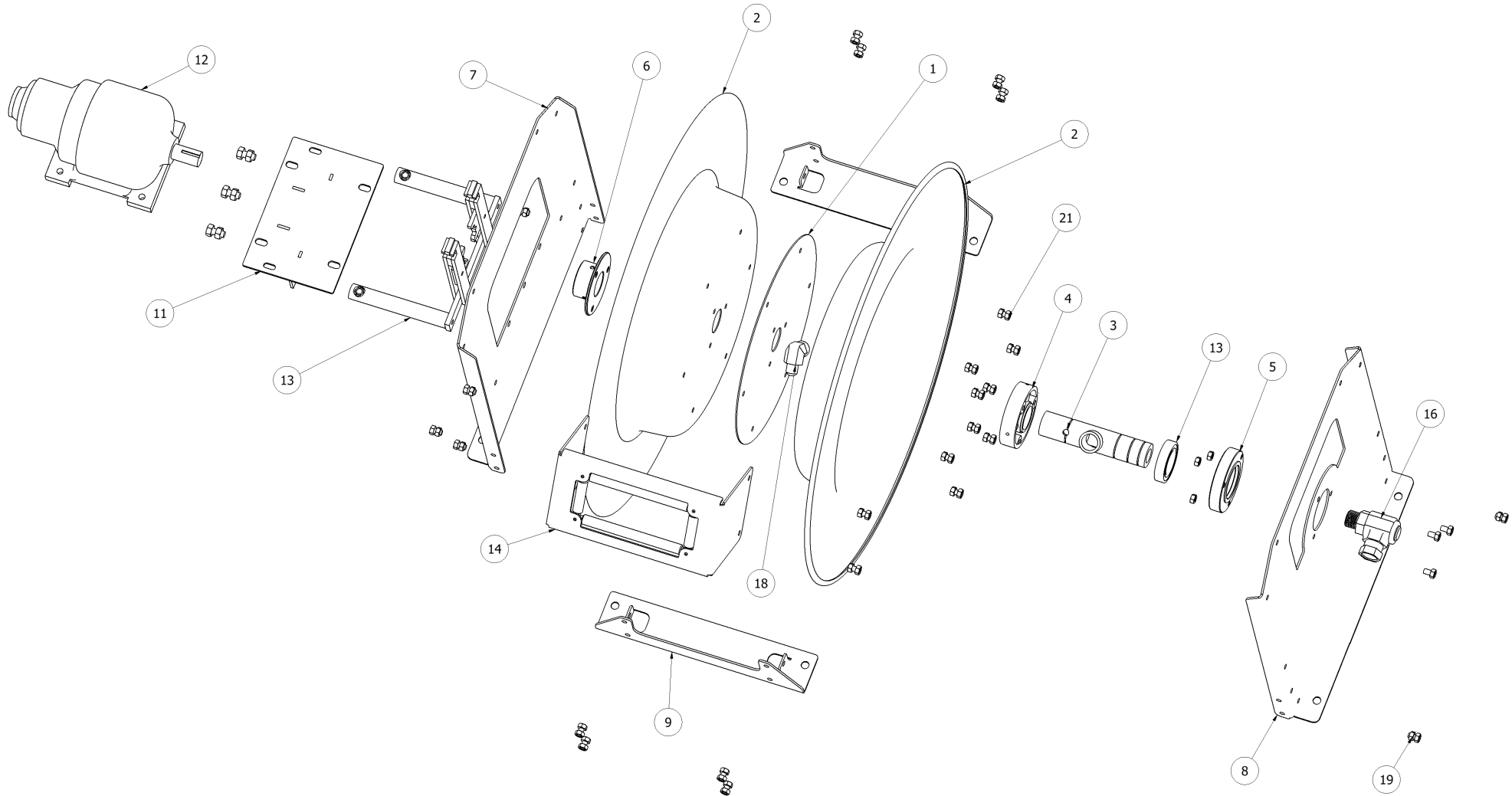
### Motor installation:

Note: Ensure that the correct motor and gearbox are selected according to below dimensions.

- Remove temporary shipping shaft bracket from the drive side of the shaft and mounting bracket by loosening fasteners.
- Insert gearbox shaft into shaft taking care to not damage key-way.
- Check position of drum in reel frame and adjust by moving motor on mounting bracket.
- Fasten motor/gearbox assembly onto mounting bracket
- Adjust brake assembly position on mounting bracket if required.









**DB700-AWL-30/16-0B**  
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	DB700-SP-0B	DB700 STIFFINER PLATE	1
2	DB700-DRSP-0B	DB700 DRUMSIDE PLAIN	2
3	DB700-SFT-0P-1	DB700 1" SHAFT PLATED	1
4	NSC00-DB-1B	NS DRUM BOSS – BLACK NYLON	1
5	NSC00-BBS-0P	BEARING BOSS STEEL PLATED	1
6	DA520-BDB-0P	DA520 BRAKE DRUM BOSS	1
7	DB700-SPDS-VC-0B	SIDE PLATE DRIVE SIDE DB700	1
8	DB700-SPCO-VC-0B	SIDE PLATE SWIVEL SIDE DB700	1
9	NS650-BB-0B-325	NS650 BASE BRACKET-325	2
19	09-DB700-FK	FASTNER KIT FOR DB700	1
13	DA520-BA-0P	BRAKE ASSEMBLY DA520 & DB700	1
11	DB700-SBKT-00	DB700 MOTOR MOUNT PLATE	1
12	OPTIONAL	MOTOR & GEARBOX ASSEMBLY	1
13	NSC00-B-40	40MM BEARING	1
14	DB700-RBKC-0B	ROLLER BRACKET ASSEMBLY DB700	1
16	COB-SW-16	COBRA 1" SWIVEL	1

**DB700-AWL-40/12-0B**  
PARTS LIST – REFER EXPLODED VIEW

DRW NO	Part number	Description	Qty per reel
1	DB700-SP-0B	DB700 STIFFINER PLATE	1
2	DB700-DRSP-0B	DB700 DRUMSIDE PLAIN	2
3	DB700-SFT-0P-3/4	DB700 3/4" SHAFT PLATED	1
4	NSC00-DB-1B	NS DRUM BOSS – BLACK NYLON	1
5	NSC00-BBS-0P	BEARING BOSS STEEL PLATED	1
6	DA520-BDB-0P	DA520 BRAKE DRUM BOSS	1
7	DB700-SPDS-VC-0B	SIDE PLATE DRIVE SIDE DB700	1
8	DB700-SPCO-VC-0B	SIDE PLATE SWIVEL SIDE DB700	1
9	NS650-BB-0B-325	NS650 BASE BRACKET-325	2
19	09-DB700-FK	FASTNER KIT FOR DB700	1
13	DA520-BA-0P	BRAKE ASSEMBLY DA520 & DB700	1
11	DB700-SBKT-00	DB700 MOTOR MOUNT PLATE	1
12	OPTIONAL	MOTOR & GEARBOX ASSEMBLY	1
13	NSC00-B-40	40MM BEARING	1
14	DB700-RBKC-0B	ROLLER BRACKET ASSEMBLY DB700	1
16	COB-SW-12	COBRA 3/4" SWIVEL	1

## Dimensions

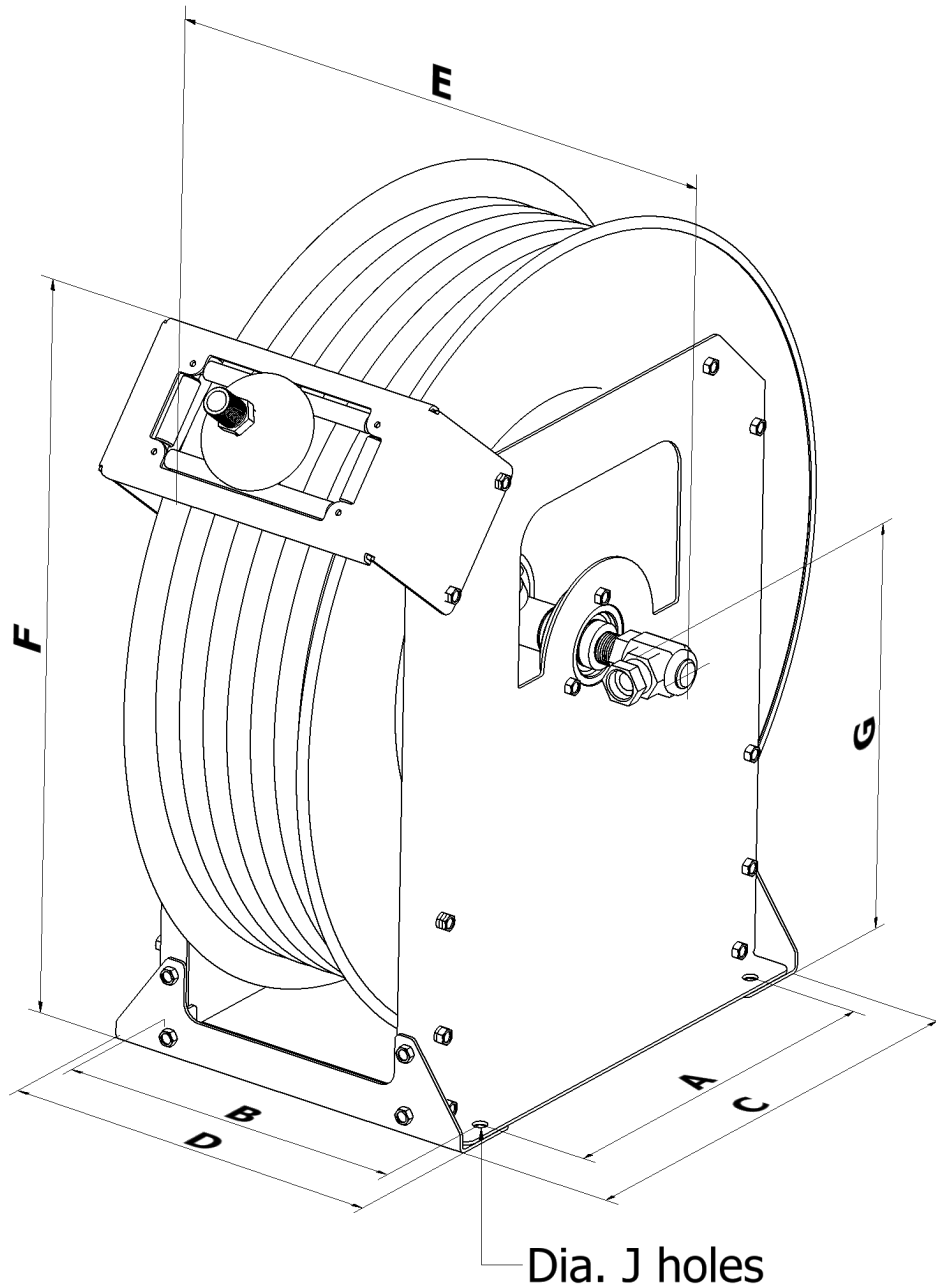
Refer Drawing Pg 11

**DB700-AWL-30/16-0B**

A	370mm
B	326mm
C	452mm
D	355mm
E	526mm
F	644mm
G	367mm
H	700mm

**DB700-AWL-40/12-0B**

A	370mm
B	326mm
C	452mm
D	355mm
E	526mm
F	644mm
G	367mm
H	700mm



See dimension table on page 11 for DB700 Series dimensions

## **SERVICE & MAINTENANCE**

### **Swivel:**



Warning – relieve all pressure from the hose reel before working on the equipment.

- All models in this range have removable swivels
- If the swivel needs replacing or repairing – i.e. leaking or seized up, the following procedure must be followed:-
  - Unscrew the swivel from the hose reel shaft by using a wrench on the two flats located on the rear of the swivel spindle
  - With non slip gloves hold the drum of the hose reel & loosen & unscrew the swivel.
  - Replace the swivel with new swivel if necessary & screw back by holding the drum of the hose reel.

### **To Repair the Swivel:**

- Remove circlip at the thread side of the swivel
- Slide the body of the swivel from the swivel spindle – clean the swivel parts.
- Replace the soft parts of the swivel from the swivel repair kit as per the correct part number relative to the appropriate model of reel – see parts no 21-S.R.K.

### **Hose Reel Drum Warning:**



Warning the hose reel drum should never be allowed to spin out of control by motor rotation – bodily injury & damage to the hose reel could occur. Apply correct brake tension with wing nut.

## Trouble Shooting Guide



Warning – relieve all pressure from the hose reel before working on the equipment.

Diagnosis	Likely Cause	Solution
Hose does not retract fully	Insufficient motor pressure	Check and clean air or hydraulic reticulation. Set pressure correctly.
	Binding of brake	Release brake sufficiently
Hose does not retract at all	Product supply piped to connect to swivel is not a flexible hose.	When a flexible connection hose to the swivel is not used excessive pressure is exerted on the shaft and bearing causing reel to bind. <b>This will also void the warranty.</b>
	Broken main spring	Fit new spring box assembly. Caution should be used to not split the spring box canister.
Swivel leak	Damaged backing ring and/or O-ring	Replace damaged Parts or fit new swivel. Use correct O-rings for product being transferred i.e. Buna N, Viton or EPR O-rings.